

304 1.00



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D3493-1

Job Sheet 200812



Part No: D3493-1

Job Qty: 40 pcs

Part Name: Washer



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/18/19

Job Tracking No:

Due Date: 11/7/19

Created By: Jennifer Renwick

Type: Stock

Description:

Note: DWG REV A IPP Rev: A New Issue 06-02-28 JLM

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation    | Qty    | Start Date | Due Date | Standard |      | Workcenter/Supplier   |           | Sign-off    |
|-------|--------------|--------|------------|----------|----------|------|-----------------------|-----------|-------------|
|       |              |        |            |          | Setup    | Run  | Workcenter / Supplier | Lead Time |             |
| 100   | Hardinge - 1 | 40 pcs | 11/7/19    | 11/7/19  | 0.50     | 3.20 | Hardinge - 1          |           | BM 19-10-23 |
| 110   | QC 2         | 40 pcs | 11/7/19    | 11/7/19  | 0.00     | 0.00 | QC 2 - 1              |           |             |
|       |              |        |            |          |          |      | QC 2 - 12             |           |             |
|       |              |        |            |          |          |      | QC 2 - 14             |           |             |
|       |              |        |            |          |          |      | QC 2 - 17             |           |             |
|       |              |        |            |          |          |      | QC 2 - 19             |           |             |
|       |              |        |            |          |          |      | QC 2 - 2              |           |             |
|       |              |        |            |          |          |      | QC 2 - 20             |           |             |
|       |              |        |            |          |          |      | QC 2 - 22             |           |             |
|       |              |        |            |          |          |      | QC 2 - 23             |           |             |
|       |              |        |            |          |          |      | QC 2 - 25             |           |             |
|       |              |        |            |          |          |      | QC 2 - 32             |           |             |
|       |              |        |            |          |          |      | QC 2 - 33             |           |             |
|       |              |        |            |          |          |      | QC 2 - 35             |           |             |
|       |              |        |            |          |          |      | QC 2 - 39             |           |             |
|       |              |        |            |          |          |      | QC 2 - 4              |           |             |
|       |              |        |            |          |          |      | QC 2 - 40             |           |             |
|       |              |        |            |          |          |      | QC 2 - 44             |           |             |
|       |              |        |            |          |          |      | QC 2 - 45             |           |             |
|       |              |        |            |          |          |      | QC 2 - 48             |           |             |
|       |              |        |            |          |          |      | QC 2 - 49             |           |             |
|       |              |        |            |          |          |      | QC 2 - 50             |           |             |
|       |              |        |            |          |          |      | QC 2 - 51             |           |             |
|       |              |        |            |          |          |      | QC 2 - 52             |           |             |
|       |              |        |            |          |          |      | QC 2 - 57             |           |             |
|       |              |        |            |          |          |      | QC 2 - 62             |           |             |
|       |              |        |            |          |          |      | QC 2 - 63             |           |             |

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DART Aerospace Ltd.  
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Hawkesbury, ON K6A 1K7  
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Container No: S225633



Part: D3493-1

Job No: 200812

Serial No/Batch: S225633

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 10/23/19

Plex 9/18/19 9:02 AM Dart.Renwick.Jennifer

|     |                             |          |         |           |                         |
|-----|-----------------------------|----------|---------|-----------|-------------------------|
|     |                             |          |         | QC 2 - 8  |                         |
|     |                             |          |         | QC 2 - 66 |                         |
|     |                             |          |         | QC 2 - 64 |                         |
|     |                             |          |         | QC 2 - 65 |                         |
|     |                             |          |         | QC 2 - 5  |                         |
|     |                             |          |         | QC 2 - 71 |                         |
|     |                             |          |         | QC 2 - 73 |                         |
|     |                             |          |         | QC 2 - 69 |                         |
| 120 | QC 8                        | 40 pcs   | 11/7/19 | 0.00 0.00 | QC 8 - 12               |
|     |                             |          |         |           | QC 8 - 14               |
|     |                             |          |         |           | QC 8 - 17               |
|     |                             |          |         |           | QC 8 - 20               |
|     |                             |          |         |           | QC 8 - 25               |
|     |                             |          |         |           | QC 8 - 3                |
|     |                             |          |         |           | QC 8 - 32               |
|     |                             |          |         |           | QC 8 - 33               |
|     |                             |          |         |           | QC 8 - 35               |
|     |                             |          |         |           | QC 8 - 39               |
|     |                             |          |         |           | QC 8 - 4                |
|     |                             |          |         |           | QC 8 - 44               |
|     |                             |          |         |           | QC 8 - 45               |
|     |                             |          |         |           | QC 8 - 49               |
|     |                             |          |         |           | QC 8 - 58               |
|     |                             |          |         |           | QC 8 - 8                |
|     |                             |          |         |           | QC 8 - 9                |
|     |                             |          |         |           | QC 8 - 68               |
|     |                             |          |         |           | QC 8 - 67               |
|     |                             |          |         |           | QC 8 - 1 (A)            |
|     |                             |          |         |           | QC 8 - 47               |
|     |                             |          |         |           | QC 8 - 40               |
|     |                             |          |         |           | QC 8 - 52               |
|     |                             |          |         |           | QC 8 - 23               |
|     |                             |          |         |           | QC 8 - 57               |
|     |                             |          |         |           | QC 8 - 76               |
| 130 | Packaging 3-1 - Stock - B4B | 40 pcs ✓ | 11/7/19 | 0.00 0.00 | Packaging 3 - 1 - B4B   |
|     |                             |          |         |           | Packaging 3 - 2 - B4B   |
|     |                             |          |         |           | Packaging 3 - 3 - B4B ✓ |
|     |                             |          |         |           | Packaging 3 - 4 - B4B   |
|     |                             |          |         |           | Packaging 3 - 5 - B4B   |
|     |                             |          |         |           | Packaging 3 - 6 - B4B   |
|     |                             |          |         |           | Packaging 3 - 7 - B4B   |
|     |                             |          |         |           | Packaging 3 - 8 - B4B   |
|     |                             |          |         |           | Packaging 3 - 9 - B4B   |
|     |                             |          |         |           | Packaging 3 - 10 - B4B  |
|     |                             |          |         |           | Packaging 3 - 11 - B4B  |
|     |                             |          |         |           | Packaging 3 - 12 - B4B  |
|     |                             |          |         |           | Packaging 3 - 13 - B4B  |
|     |                             |          |         |           | Packaging 3 - 14 - B4B  |
|     |                             |          |         |           | Packaging 3 - 15 - B4B  |
|     |                             |          |         |           | Packaging 3 - 16 - B4B  |
|     |                             |          |         |           | Packaging 3 - 17 - B4B  |
|     |                             |          |         |           | Packaging 3 - 18 - B4B  |
|     |                             |          |         |           | Packaging 3 - 19 - B4B  |
|     |                             |          |         |           | Packaging 3 - 20 - B4B  |

VHS 19/10/24

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OCT 28 2019

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|                                                                                                                                                                                                                                                                              |                       |                      |                  |                        |                         |
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|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 21 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 22 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 23 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 24 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 25 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 26 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 27 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 28 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 29 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 30 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 31 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 32 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 33 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 34 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 35 - B4B |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Packaging 3 - 36 - B4B |                         |
| 140 QC 21 - SA                                                                                                                                                                                                                                                               | 40 pcs ✓              | 11/7/19              | 0.00 0.00        | QC 21 - SA - 21 ✓      | ST 037                  |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | QC 21 - SA - 70        |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | QC 21 - SA - 53        |                         |
|                                                                                                                                                                                                                                                                              |                       |                      |                  | Broussard              | DAS 21 OCT 28 2019 9:39 |
| Part Op 100 - Hardinge - 1-Turn as per Folio FA626 & Dwg D3493<br>Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB<br>120 - QC8- Inspect parts - second check<br>130 - Identify as per dwg & Stock Location:<br>140 - QC21- Final Inspection - Work Order Release |                       |                      |                  |                        |                         |
| <b>Job BOM</b>                                                                                                                                                                                                                                                               |                       |                      |                  |                        |                         |
| <b>Part / Item</b>                                                                                                                                                                                                                                                           | <b>Component Name</b> | <b>Quantity</b>      | <b>Operation</b> | <b>Container</b>       |                         |
| M304R1.000                                                                                                                                                                                                                                                                   | 304 Round Bar 1.00    | 1.1640 ft (.0291 ea) | 100-Hardinge - 1 | S190 202               |                         |
| <b>Job Allocations</b>                                                                                                                                                                                                                                                       |                       |                      |                  |                        |                         |
| <b>Operation</b>                                                                                                                                                                                                                                                             | <b>Component Part</b> | <b>Required</b>      | <b>Inventory</b> | <b>Allocated</b>       |                         |
| 100-Hardinge - 1                                                                                                                                                                                                                                                             | M304R1.000            | 1                    | 22               | 0                      |                         |
| <b>Part Specifications</b>                                                                                                                                                                                                                                                   |                       |                      |                  |                        |                         |
| Specifications could not be found.                                                                                                                                                                                                                                           |                       |                      |                  |                        |                         |

Plex 9/18/19 9:02 AM Dart.Renwick.Jennifer

Entered: \_\_\_\_\_ Date: \_\_\_\_\_

# WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐



|                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Job:</b> _____<br><b>Part No.</b> _____                                                                                                                                                                                                                                                                                                                                          |  | <b>DISPOSITION</b><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> |  | <b>DEPARTMENT/PROCESS</b><br>Skid-tube <input type="checkbox"/> Cross tube <input type="checkbox"/> Eng. (Non-AW) <input type="checkbox"/><br>Machining <input type="checkbox"/> Small Fab <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/><br>Large Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
| <b>Date :</b> _____                                                                                                                                                                                                                                                                                                                                                                 |  | <b>Sequence #:</b> _____                                                                                                      |  | <b>QTY Affected :</b> _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>MRB (QS1042)</b>                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                        |  |
| <b>Description Work Order Deviation</b>                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                               |  | <b>Disposition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
| <b>Root Cause</b><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |  |                                                                                                                               |  | <b>FAULT CATEGORY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                               |  | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/><br>Mislabeled <input type="checkbox"/>                                                                                                                                                                                                                                              |  | Contamination <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Incomplete/Unclear Instructions <input type="checkbox"/><br>Drill Holes <input type="checkbox"/><br>Fit/Function <input type="checkbox"/> |  | Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain Direction <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set/Set-up <input type="checkbox"/> |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                               |  | Positioned Wrong <input type="checkbox"/><br>Outside Tolerance <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Misread <input type="checkbox"/>                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                               |  | Other/Details: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
| <b>Completed By</b>                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                               |  | <b>Lead hand / Supervisor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                               |  | <b>QC / QA Coordinator</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                        |  |

